1. Escreva a estrutura de cada um dos compostos abaixo:

a) 2,3-dicloropentano

b) iodeto de t-butila

c) 3-etilpentano

d) 2,3,4-trimetildecano

e) 4-isopropilnonano

f) 1-cloro-4-metilpentano

g)1,1-dimetilciclopropano

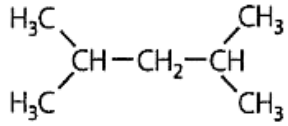
h)1-cloro-3-metibutano

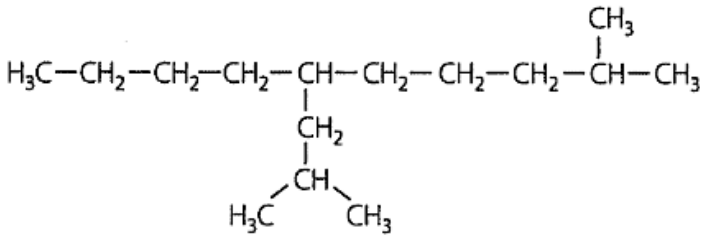
I) cloreto de neopentila

2. Dê nome a cada um dos seguintes compostos:

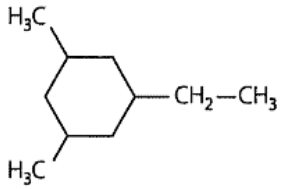
a) $CH_3CH(CH_3)CH_2CH_3$

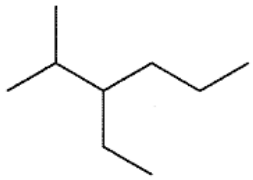
b) $CH_3CH(C_2H_5)CH(CH_3)CH_2CH_3$

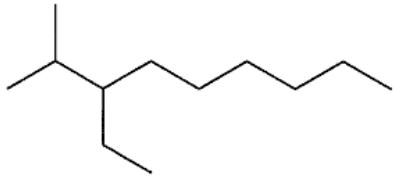
c) 

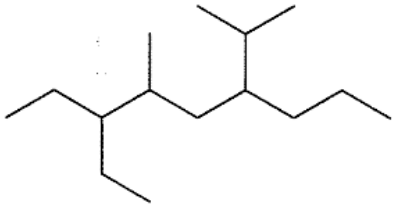
d) 

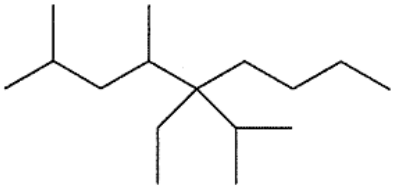
e) $CH_3CH_2CH(C_2H_5)CH_3$

f) 

g) 

h) 

i) 

j) 

3. Escreva a estrutura e dê o nome de alcanos ou ciclanos com a fórmula:

a) C_2H_{12} que possua apenas hidrogênios primários.

b) C_5H_{12} que possua apenas um hidrogênio terciário.

c) C_5H_{10} que possua apenas hidrogênios Secundários.

d) C_6H_{14} que possua apenas hidrogênios primários e terciários.

4. Os nomes abaixo estão incorretos. Diga onde está o erro e dê o nome correto.

a) pent-3-eno

b) 1,122-tetrametileteno

c) 2-metilciclo-hepteno

d) 1-metil-hept-1-eno

e) 3-metibut-2-eno

f) 4,5-diclorociclopenteno

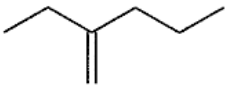
5. Escreva as fórmulas estruturais e dê os nomes de todos os alcenos de fórmula:

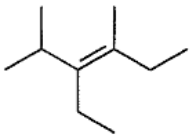
a) C_5H_{10}

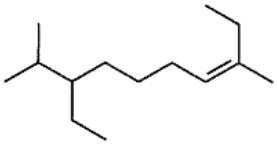
b) C_6H_{12}

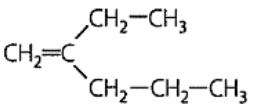
c) Que outras fórmulas são possíveis para C_5H_{10} e C_6H_{12}?

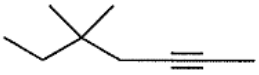
6. Dê o nome dos compostos a seguir:

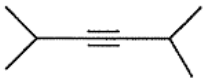
a) 

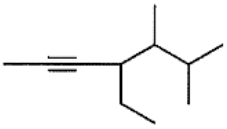
b) 

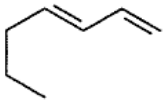
c) 

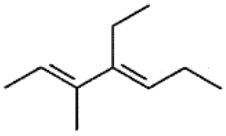
d) 

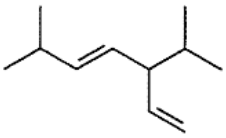
e) 

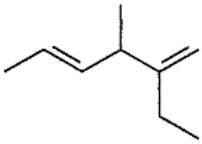
f) 

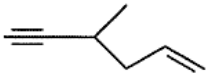
g) 

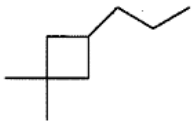
h) 

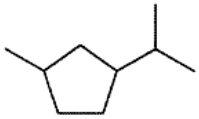
i) 

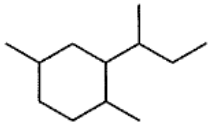
j) 

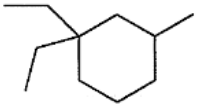
k) 

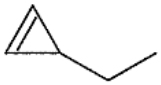
l) 

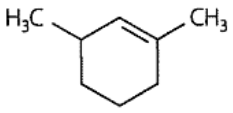
m) 

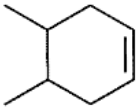
n) 

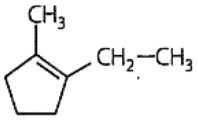
o) 

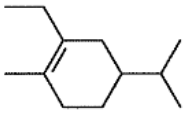
p) 

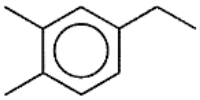
q) 

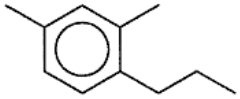
r) 

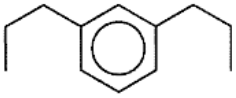
s) 

t) 

u) 

v) 

x) 

z) 

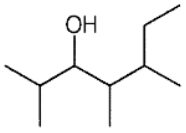
7. Escreva as estruras dos seguintes biciclanos:

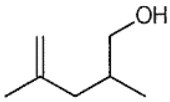
a) Biciclo[2.1.0]

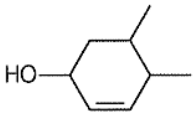
b) 2-clorobiciclo[3.2.0]

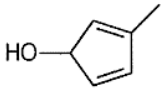
c) 7-metilbiciclo[2.21] heptano

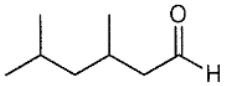
8. Dê o nome dos compostos a seguir:

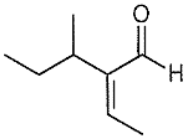
a) 

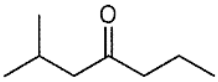
b) 

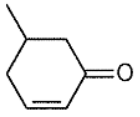
c) 

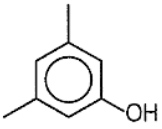
d) 

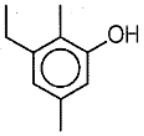
e) 

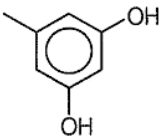
f) 

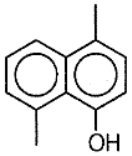
g) 

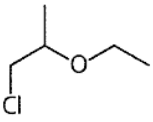
h) 

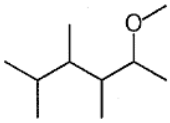
i) 

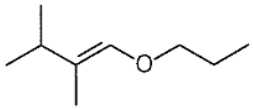
j) 

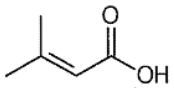
k) 

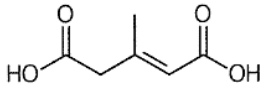
l) 

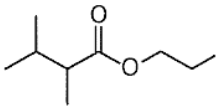
m) 

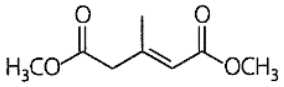
n) 

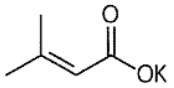
o) 

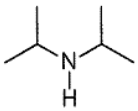
p) 

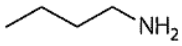
q) 

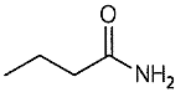
r) 

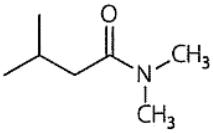
s) 

t) 

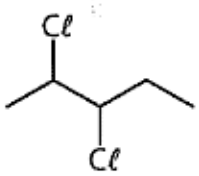
u) 

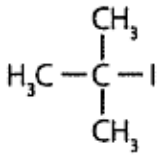
v) 

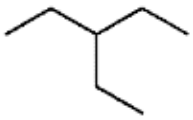
x) 

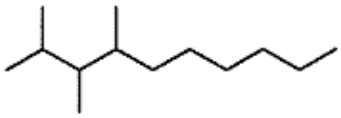
z) 

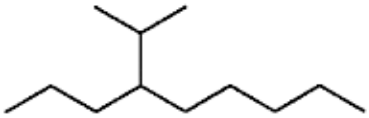
GABARITO

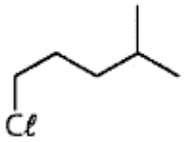
1. a) 

b) 

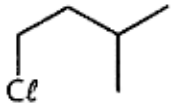
c) 

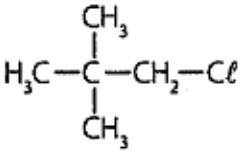
d) 

e) 

f) 

g) 

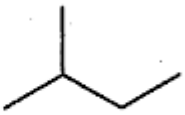
h) 

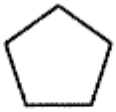
i) 

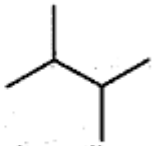
2. a) metilbutano
b) 2,4-dimetil-hexano
c) 2,4-dimetilpentano
d) 6-isobutil-2-metildecano
e) 3-metilpetano
f) 1-etil-3,5-dimetilciclo-hexano
g) 3-etil-2-metil-hexano
h) 3-etil-2metilnonano
i) 3-etil-6isopropil-4-metilnonano
j) 5-etil-5-isopropil-2,4-dimetilnonano

3.

a) 
dimetilpropano

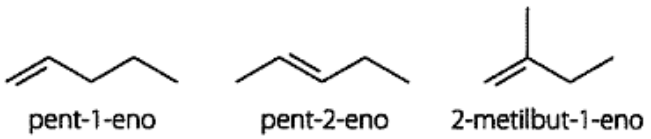
b) 
metilbutano

c) 
ciclopentano

d) 
2,3-dimetilbutano

4. a) pent-2-eno
b) 2,3-dimetilbut-eno
c) 1-metilciclo-hepteno
d) oct-2-eno
e) 2-metilbut-2-eno
f) 3,4-diclorociclopenteno

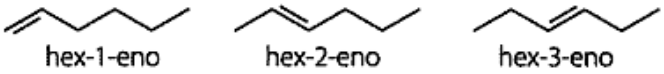
5. a)



pent-1-eno pent-2-eno 2-metilbut-1-eno

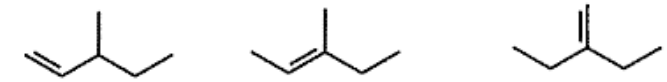
3-metilbut-1-eno 2-metilbut-2-eno

b)

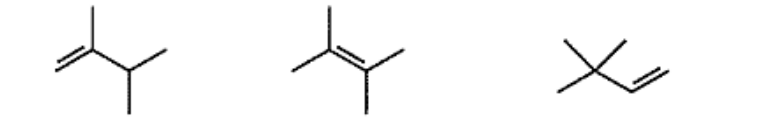


hex-1-eno hex-2-eno hex-3-eno

2-metilpent-1-eno 2-metilpent-2-eno 4-metilpent-2-eno 4-metilpent-1-eno

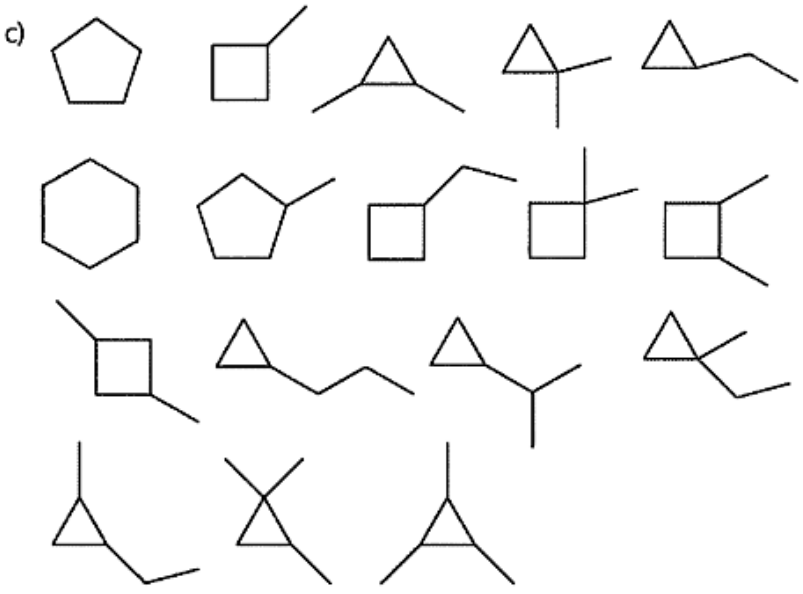


3-metilbut-1-eno 3-metilbut-2-eno 2-etilbut-1-eno



2,3-dimetilbut-1-eno 2,3-dimetilbut-2-eno 3,3-dimetilbut-1-eno

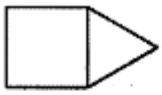
c)



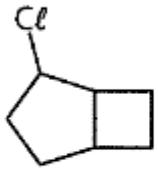
6. a) 2-etilpent-1-eno
b) 3-etil-2,4-dimetil-hex-3-eno
c) 8-etil-3,9-dimetildec-3-eno
d) 2-etilpent-1-eno
e) 5,5-dimetil-hept-2-ino
f) 2,5-dimetil-hex-3-ino
g) 4-etil-5,6-dimetil-hept-2-ino
h) hepta-1,3-dieno

i) 4-etil-3-hepta-2,4-dieno
j) 3-isopopril-6-metil-hepta-1,4-dieno
k) 2-etil-3-metil-hexa-1,4-dieno
l) 3-metil-hex-5-em-1-ino
m) 1,1-dimentil-3-propilciclobutano
n) 1-isopropil-3-metilciclopentano
o) 2-sec-butil-1,4-dimetilciclo-hexano
p) 1,1-dietil-3-metilciclo-hexano
q) 3-etilciclopropeno
r) 1,3-dimetilciclo-hexeno
s) 4,5-dimetilciclo-hexeno
t) 1-etil-2-metilciclopenteno
u) 2-etil-4-isopropil-1-metilciclo-hexeno
v) 4-etil-1,2-dimetilbenzeno
x)2,4-dimetil-1-propilbenzeno
z) 1,3-dipropilbenzeno

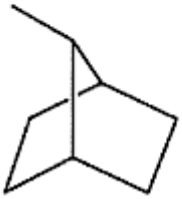
7. a)



b)



c)



8. a) 2,4,5-trimetil-heptan-3-ol
b) 2,4-dimetilpent-4-em-1-ol
c) 4,5-dimetilciclo-hex-2-enol
d) 3-metilciclopenta-2,4-dienol
e) 3,5-dimetil-hexanal
f) 2-sec-butilbut-2-enal
g) 2-metil-heptan-4-ona
h) 5-metilciclo-hex-2-enona
i) 3,5-dimetifenol
j) 3-etil-2,5-dimetifenol
k) 5-metilbenzeno-1,3-diol
l) 4,8-dimetilnaftaleno-1-ol
m) 1-cloro-2-etoxipropano
n) 3,4,5-trimetil-2-metoxi-hexano
o) 2,3-dimetil-1-propoxibut-1-eno
p) ácido 3-metilbut-2-enoico
q)ácido 3-metilbut-2-enodioico
r) 2,3-dimetilbutanoato de propila
s) 3-metilbut-2-enodioato de metila
t) 3-metilbut-enoato de potássio

u) diisopropilamina
v) n-butilamina
x) butanamida
z) N,N,3-trimetilbutanamida